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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/930,040	08/14/2001	Yong Wang	B-1482-DIV	7 1189
Intellectual Property Services Battelle Memorial Institute Pacific Northwest Division			EXAMINER	
			NORTON, NADINE GEORGIANNA	
P.O. Box 999 Richland, WA 99352			ART UNIT	PAPER NUMBER
Richard, WA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1764	
			DATE MAILED: 05/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		AS
	Application No.	Applicant(s)
	09/930,040	WANG ET AL.
Office Action Summary	Examiner	Art Unit
	Nadine Norton	1764
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). Status	NN. R 1.136(a). In no event, however, may a repl to reply within the statutory minimum of thirty (it of will apply and will expire SIX (6) MONTH atule, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	19 February 2003 .	
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.	
3) Since this application is in condition for all closed in accordance with the practice und Disposition of Claims		
4)⊠ Claim(s) <u>10-25</u> is/are pending in the applic	cation.	
4a) Of the above claim(s) is/are with	drawn from consideration.	
5)⊠ Claim(s) <u>10-14</u> is/are allowed.		•
6)⊠ Claim(s) <u>15-25</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction an Application Papers	nd/or election requirement.	
9)☐ The specification is objected to by the Exam	niner.	
10) The drawing(s) filed on is/are: a) □ ad	ccepted or b) objected to by the	Examiner.
Applicant may not request that any objection to	o the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□ disa	approved by the Examiner.
If approved, corrected drawings are required ir	• •	
12) ☐ The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. § 1	19(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority docum		
2. Certified copies of the priority docum	••	
 3. ☐ Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a 	Bureau (PCT Rule 17.2(a)).	_
14)☐ Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. §	119(e) (to a provisional application).
 a) ☐ The translation of the foreign language 15)☒ Acknowledgment is made of a claim for dom 		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper Note	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC §102/103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 15-25 rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Priegnitz et al.(6,162,267).

Applicants are claming a steam reforming catalyst selected from the group consisting of rhodium, iridium, nickel, palladium, carbide of group VIB and combinations thereof.

The reference of Priegnitz et al.(6,162,267) discloses a steam reforming process employing a reforming catalyst selected from noble metals (Pt, Pt, Rh) combined with Ni or Co

on a spinel support, i.e. magnesium aluminate. See column 5, line 63- column 6, line 20. The support can also include magnesia. See column 5, lines 66-67.

The reference of Priegnitz et al.(6,162,267) succeeds at disclosing a catalyst with components corresponding to those claimed by applicants.

It is noted that Priegnitz et al.(6,162,267) is silent about applicants' specifically claimed composition conversion characteristics. However, the disclosed composition would inherently possess such conversion characteristics because the physical composition is the same.

In addition, it is noted that the reference does not disclose applicants' specifically claimed method of making limitations. However, such limitations are considered to be product by process limitations. As a result, applicants' final product does not distinguish over the applied art because it has been held that patentability is based on the final composition and not the method by which it was made. See <u>In re Marosi</u>, 218 USPQ (Fed. Cir. 1983) and <u>In re Thorpe</u>, 227 USPO 964 (Fed. Cir. 1985).

In addition, applicants' product conversion characteristics would obviously be provided upon producing the composition of Priegnitz et al.(6,162,267).

Claim Rejections - 35 USC § 102/103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15-24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Bhore et al.(5,741,469), Avidan et al.(5,728,358), or Fujitani et al.(4,367,166).

The reference of Bhore et al.(5,741,469) discloses a composition containing a magnesium aluminate spinel support and rhodium, iridium, platinum, palladium, or nickel. See column 8, lines 5-10 and 60-66. The magnesium alumina is magnesia rich. See column 10, lines 35-46.

The reference of Avidan et al.(5,728,358) discloses a composition containing a magnesium aluminate spinel support and rhodium, iridium, platinum, palladium, or nickel. See column 8, lines 5-10 and 60-66. The magnesium alumina is magnesia rich. See column 12, lines 36-41.

The reference of Fujitani et al.(4,367,166) discloses a steam reforming catalyst containing rhodium deposited on magnesia aluminate spinel. See abstract and column 2, lines 1-20. The reference also teaches an additional oxide of magnesium component. See column, lines 16-25.

The references of Bhore et al.(5,741,469), Avidan et al.(5,728,358), or Fujitani et al.(4,367,166)

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It is noted that the applied references are silent about applicants' specifically claimed composition conversion characteristics. However, the disclosed compositions would inherently possess such conversion characteristics because the physical composition is the same as that claimed by applicants.

It is also noted that the applied references do not disclose applicants' specifically claimed method of making limitations. However, such limitations are considered to be product by process limitations. As a result, applicants' final product does not distinguish over the applied art because it has been held that patentability is based on the final composition and not the method by which it was made. See <u>In re Marosi</u>, 218 USPQ (Fed. Cir. 1983) and <u>In re Thorpe</u>, 227 USPQ 964 (Fed. Cir. 1985).

In addition, applicants' product conversion characteristics would obviously be provided upon producing the compositions of Bhore et al.(5,741,469), Avidan et al.(5,728,358), or Fujitani et al.(4,367,166).

Claim Rejections - 35 USC § 102/103

Claims 1-19 and 24-25 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tanaka et al.(4,088,608).

The reference of Tanaka et al.(4,088,608) discloses a reforming catalyst which is supported on a magnesium aluminate spinel. The catalyst contains Pt, Pd, and/or rhodium. See abstract and column 12, lines 25-30.

The reference of Tanaka et al.(4,088,608) succeeds at disclosing catalyst components corresponding to those claimed by applicants.

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It is noted that Tanaka et al.(4,088,608) is silent about applicants' specifically claimed composition conversion characteristics. However, the disclosed composition would inherently possess such conversion characteristics because the physical composition is the same.

In addition, it is noted that the reference does not disclose applicants' specifically claimed method of making limitations. However, such limitations are considered to be product by process limitations. As a result, applicants' final product does not distinguish over the applied art because it has been held that patentability is based on the final composition and not the method by which it was made. See <u>In re Marosi</u>, 218 USPQ (Fed. Cir. 1983) and <u>In re Thorpe</u>, 227 USPQ 964 (Fed. Cir. 1985).

In addition, applicants' product conversion characteristics would obviously be provided upon producing the composition of Tanaka et al.(4,088,608).

Allowable Subject Matter

Claims 10-14 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not disclose or suggest a catalyst composition with the specific structure defined in applicants' claim 1.

Response to Arguments

Applicants' declaration filed 2-19-03 in paper no.8 is not sufficient to overcome the previous rejection over because it does not show that all of applicants' claimed catalysts components (e.g. Pt, Pd, or carbides) were conceived prior to the date of Priegnitz et al.(6,162,267).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadine Norton whose telephone number is 703-305-2667. The examiner can normally be reached on Monday through Thursday from 8:30 am to 7:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0661.

N.N. May 3, 2003

> NADINE G. MORTON PRIMARY FYSMINER

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